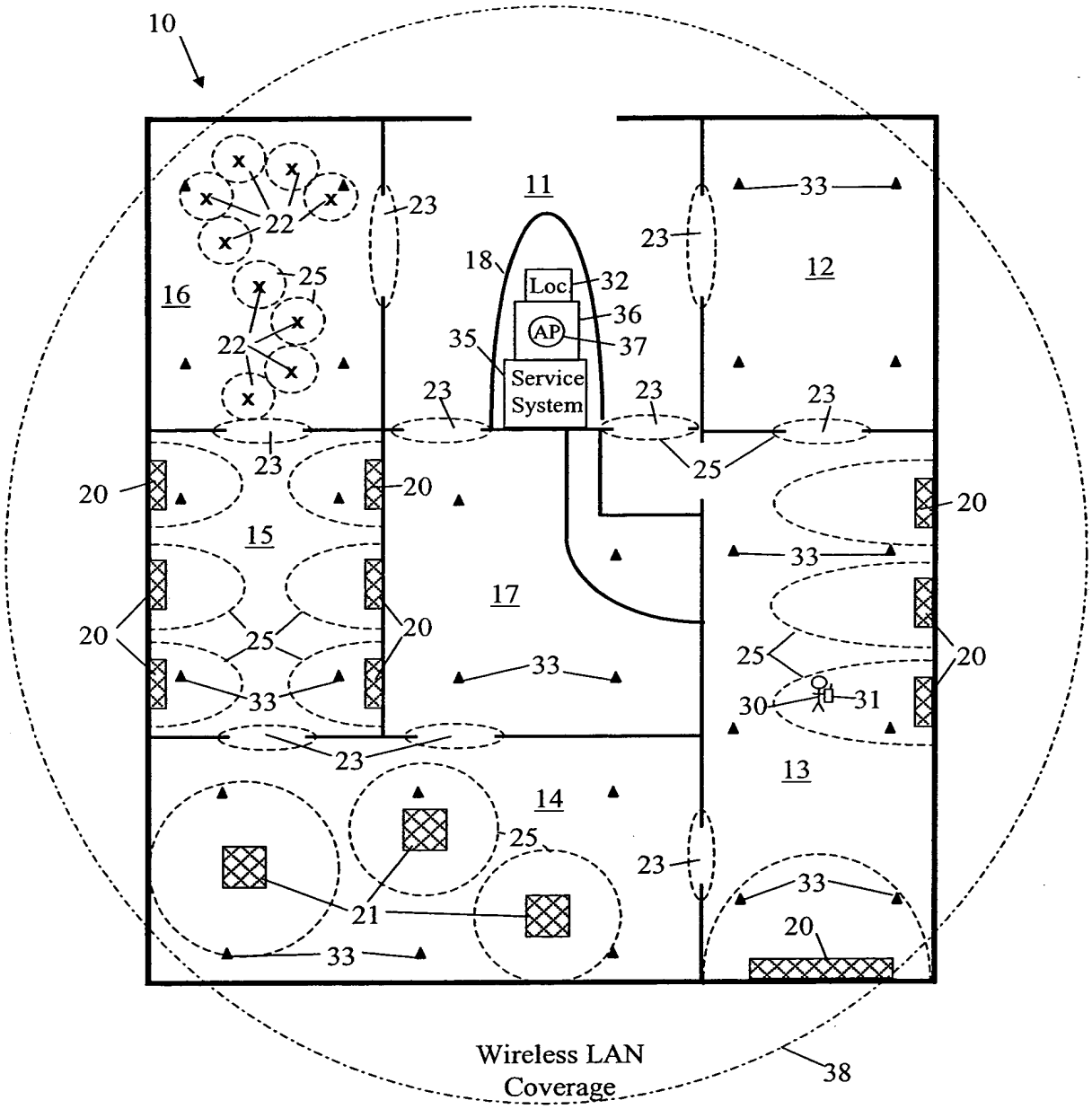

10
11
12
13
14
15
16
17
18
22
23
25
33
Loc
32
AP
36
37
35
Service System
20
21
30
31
Wireless LAN Coverage
38

Figure 1

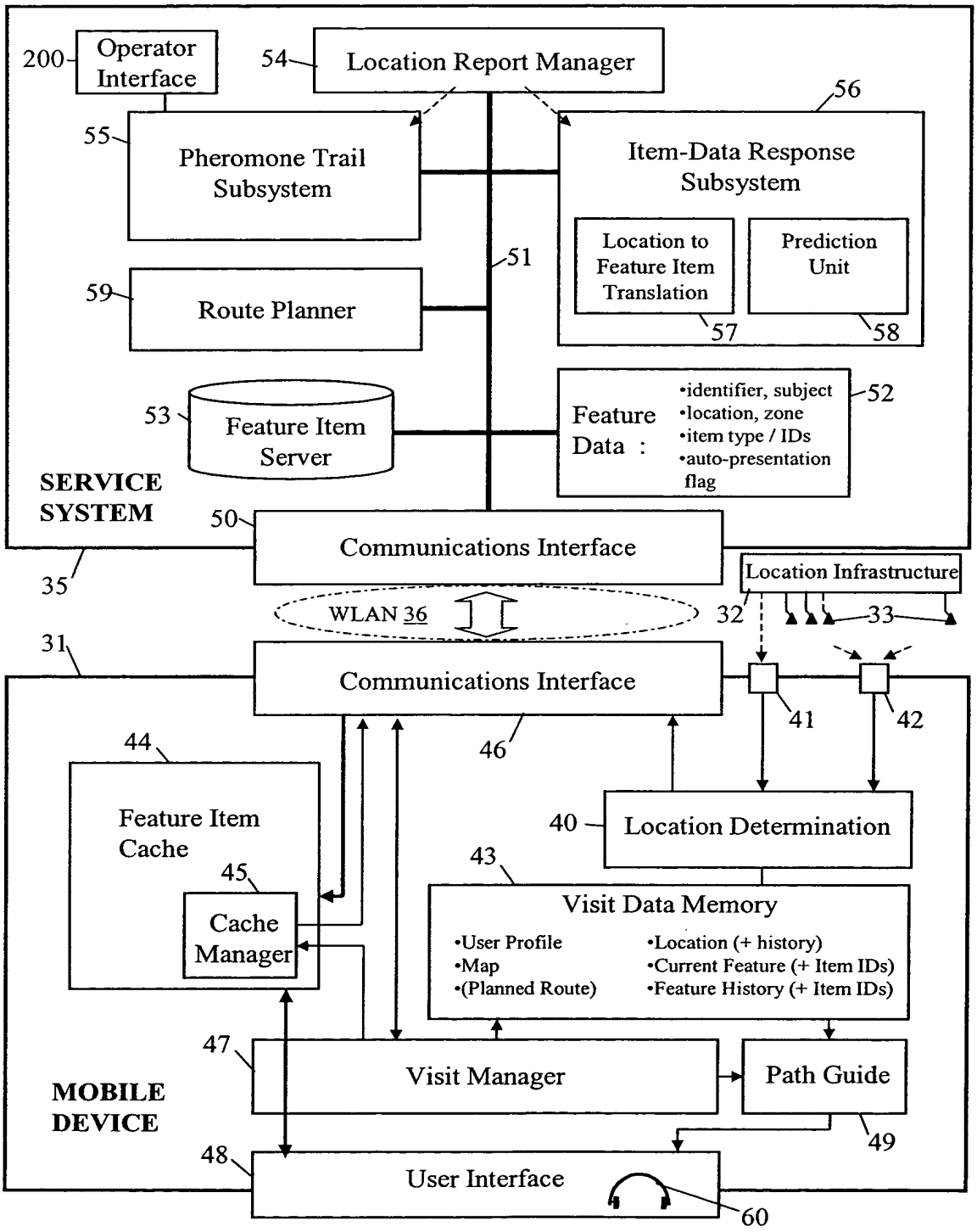

200
Operator Interface
54
Location Report Manager
56
55
Pheromone Trail Subsystem
Item-Data Response Subsystem
Location to Feature Item Translation
Prediction Unit
57
58
51
59
Route Planner
53
Feature Item Server
Feature Data :
•identifier, subject
•location, zone
•item type / IDs
•auto-presentation flag
52
SERVICE SYSTEM
50
Communications Interface
35
Location Infrastructure
WLAN 36
32
33
31
Communications Interface
41
42
46
44
Feature Item Cache
40
Location Determination
45
Cache Manager
43
Visit Data Memory
•User Profile
•Map
•(Planned Route)
•Location (+ history)
•Current Feature (+ Item IDs)
•Feature History (+ Item IDs)
47
Visit Manager
Path Guide
MOBILE DEVICE
49
48
User Interface
60

Figure 2

Location Report 62

User Identity	Location	Profile Data	Prediction-Assist Data

Figure 3

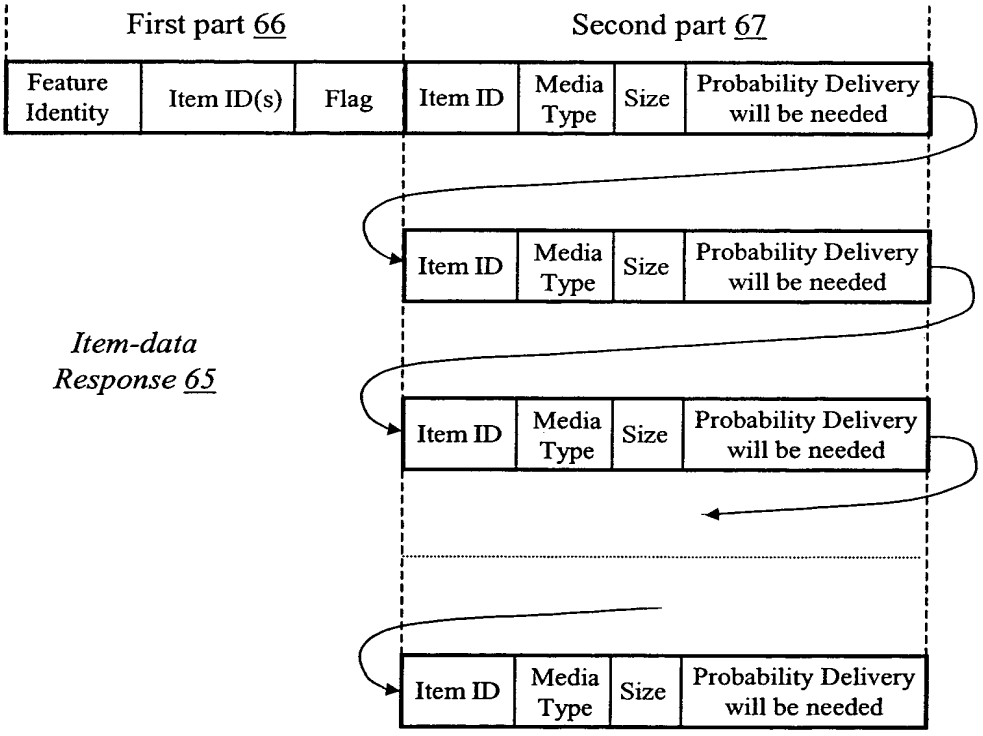


Figure 4

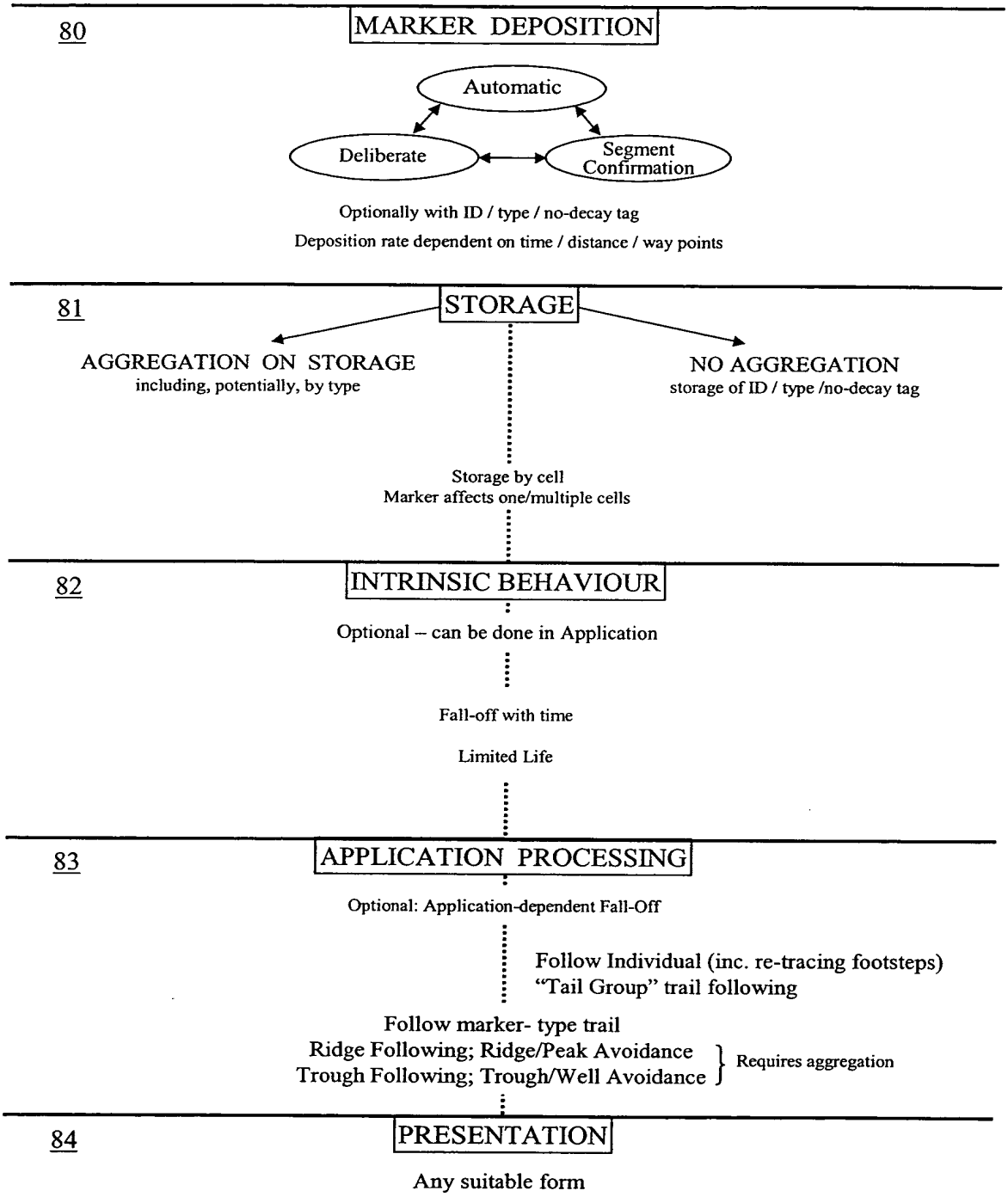

80
MARKER DEPOSITION
Automatic
Deliberate
Segment Confirmation
Optionally with ID / type / no-decay tag
Deposition rate dependent on time / distance / way points
81
STORAGE
AGGREGATION ON STORAGE
including, potentially, by type
NO AGGREGATION
storage of ID / type /no-decay tag
Storage by cell
Marker affects one/multiple cells
82
INTRINSIC BEHAVIOUR
Optional – can be done in Application
Fall-off with time
Limited Life
83
APPLICATION PROCESSING
Optional: Application-dependent Fall-Off
Follow Individual (inc. re-tracing footsteps)
"Tail Group" trail following
Follow marker- type trail
Ridge Following; Ridge/Peak Avoidance
Trough Following; Trough/Well Avoidance
Requires aggregation
84
PRESENTATION
Any suitable form

Figure 5

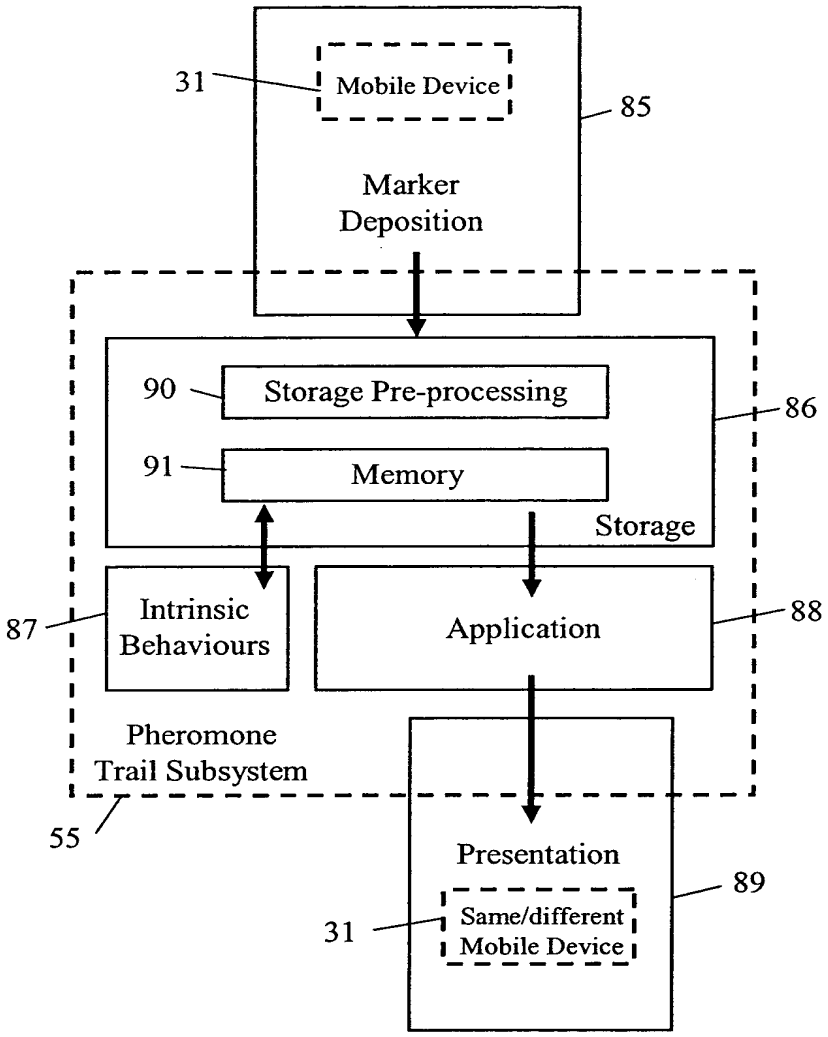

31
Mobile Device
85
Marker
Deposition
90
Storage Pre-processing
86
91
Memory
Storage
87
Intrinsic
Behaviours
Application
88
Pheromone
Trail Subsystem
55
Presentation
89
31
Same/different
Mobile Device

Figure 6

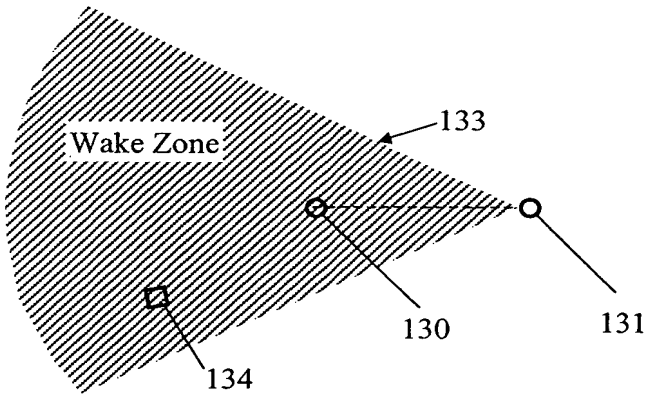


Figure 7

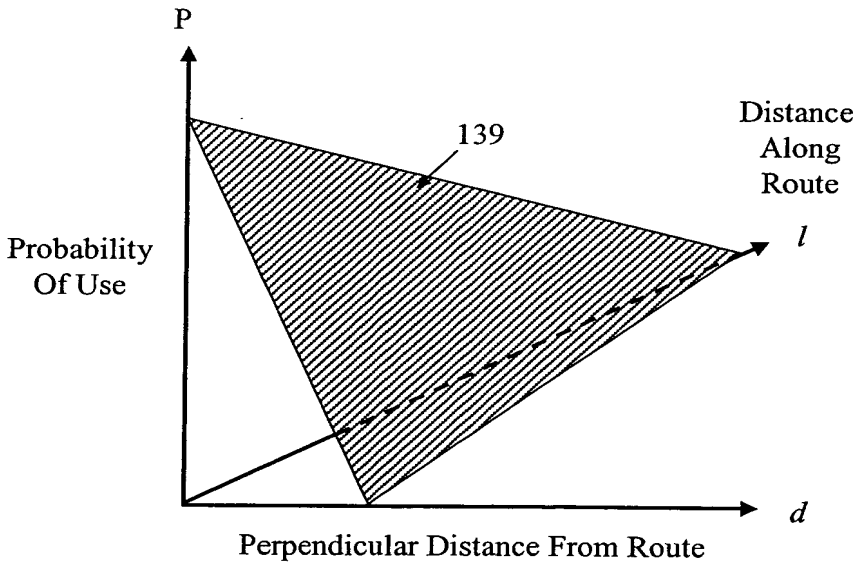
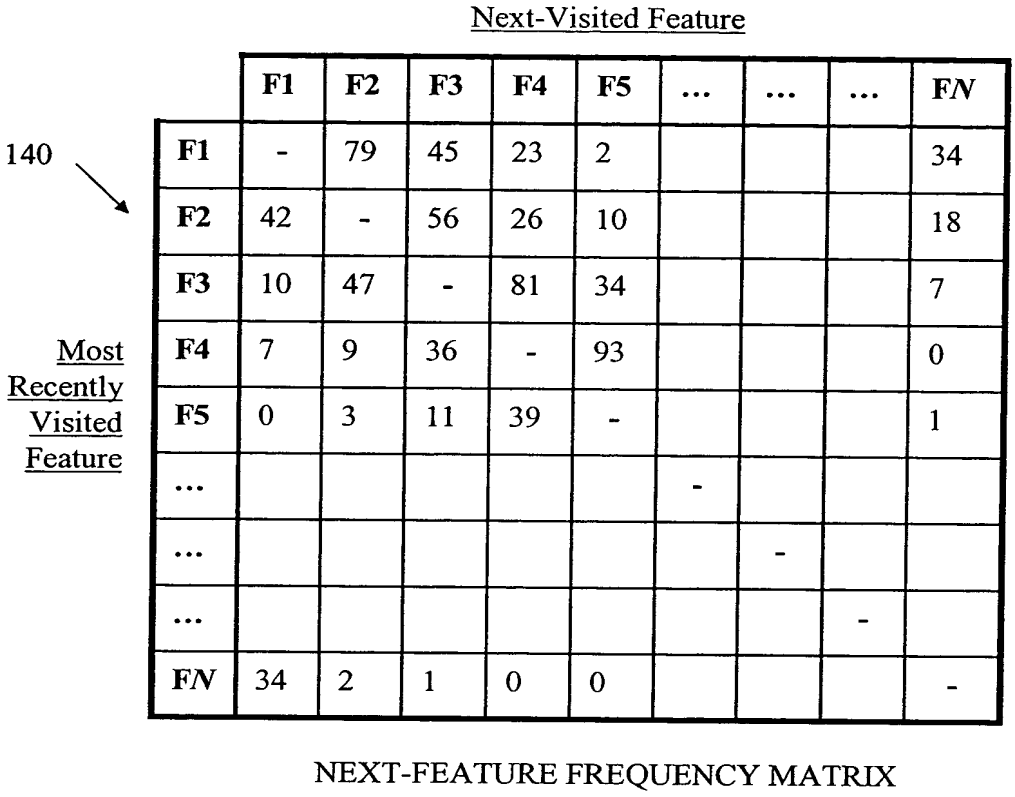


Figure 8



	F1	F2	F3	F4	F5	...	...	...	FN
F1	-	79	45	23	2				34
F2	42	-	56	26	10				18
F3	10	47	-	81	34				7
F4	7	9	36	-	93				0
F5	0	3	11	39	-				1
...						-			
...							-		
...								-	
FN	34	2	1	0	0				-

NEXT-FEATURE FREQUENCY MATRIX

Figure 9